

This listing of claims will replace all prior versions, and listings, of claims in the application:

**The Status of the Claims**

1. (Currently amended) A method for print screen tonal control compensation on a printing press, the method comprising the steps of:  
providing a test screening pattern having a plurality of predetermined screening densities including a maximum screening density;  
causing the printing press to print the test screening pattern in ink;  
measuring an ink density of at least a portion of the printed test screening pattern using a densitometric meter;  
determining comparing the measured ink density of the printed test screening pattern at which to the test screening pattern to obtain reaches a plugging point  
indication representative of the ink density of the printed test screening at which the  
printed test screening pattern exceeds that representing by a solid screening; and  
adjusting each of the ink densities of the printed test screening pattern above  
the plugging point, by a screening value sufficiently reduced to cause the printing press to print a screening pattern without reaching the plugging point prior to the  
maximum screening density of the screening pattern in accordance with the plugging  
indication.
2. (original) The method of claim 1, wherein the maximum screening density represents a solid screening.

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3. (Currently amended) The method of claim 1, wherein the printing press prints for a particular paper and a particular ink type and wherein ~~the step of~~ providing a test screening pattern further comprises ~~the step of~~ selecting the test screening pattern in dependence upon at least one of the particular paper and the particular ink.

4. (Currently amended) The method of claim 1, wherein ~~the step of~~ providing a test screening pattern further comprises ~~the step of~~ generating the test screening pattern on a computer.

5. (original) The method of claim 1, wherein the compensation is undertaken a number of times.

6. (Currently amended) The method of claim 5, wherein the compensation is undertaken until the measured ink density at which the plugging indication-point is reached is not less than the maximum screening density of the test screening pattern.

7. (Canceled).

8. (original) The method of claim 1, wherein the densitometric meter is one of a photospectrometer, densitometer, or combination thereof.

9. (currently amended) A method of calibrating a printing press, the method comprising ~~the steps of:~~

generating a test screening pattern having a plurality of predetermined screening densities including a maximum density;

creating a printing plate to cause the printing press to print the generated test screening pattern;

printing the generated test screening pattern on the printing press;

measuring an ink density of at least a portion of the printed test screening pattern using a densitometric meter;

determining comparing the measured ink density of the printed test screening pattern ~~at which to the printed generated test screening pattern to obtain reaches a plugging point indication representative of the ink density of the printed test screening at which the printed test screening pattern appears as a solid screening;~~

creating a density curve for each of the ~~predetermined~~ screening densities of the printed test screening pattern above the determined ink density that reaches the plugging point indication, wherein the density curve represents a screening value sufficiently reduced to cause the printing press to print the test screening pattern without reaching the plugging point indication; and

creating a production printing plate to cause the printing press to print the generated test screening pattern in combination with the density curve.

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10. (Currently amended) The method of claim 9, wherein ~~the step of~~ generating a test screening pattern further comprises ~~the step of~~ generating a test pattern having a plurality of screening densities including a maximum screening density representing a solid screening.
11. (Currently amended) The method of claim 9, wherein the printing press prints for a particular paper and a particular ink type and wherein ~~the step of~~ generating the test screening pattern further comprises ~~the step of~~ generating the test screening pattern in dependence upon at least one of the particular paper and the particular ink.
12. (Currently amended) The method of claim 9, wherein ~~the step of~~ generating the test screening pattern further comprises ~~the step of~~ generating the test screening pattern on a computer.
13. (original) The method of claim 9, wherein the calibration is undertaken a number of times.
14. (Currently amended) The method of claim 13, wherein the calibration is undertaken until the printed test screening pattern does not reach the plugging point.  
indication is not less than the maximum screening density of the test screening pattern.

15. (Currently amended) A method of calibrating a printing press, the method comprising the steps of:

- (a) generating a test screening pattern having a plurality of predetermined screening densities including a maximum density representing a solid screening;
- (b) creating a printing plate to cause the printing press to print the generated test screening pattern;
- (c) printing the generated test screening pattern on the printing press;
- (d) measuring an ink density of at least a portion of the printed test screening pattern using a densitometric meter;
- (e) comparing determining the measured density of the printed test screening pattern to at which the generated printed test screening pattern reaches a plugging point indication representative of the ink density of the printed test screening pattern at which the printed test screening pattern appears as a solid screening;
- (f) creating a density curve for each of the screening densities of the printed test screening pattern above the determined density at which the printed test screening pattern reaches the plugging point, wherein the density curve represents a screening value sufficiently reduced to cause the printing press to print the test screening pattern without reaching the plugging point prior to the maximum density;
- (g) adjusting the printing press in accordance with the plugging indication density curve; and
- (h) repeating steps (b) through (fg) if the determined density at which the printed test screening pattern reaches the plugging point plugging indication is less than the maximum density representing a solid screening.

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16. (canceled)

17. (Currently amended) The method of claim 15, wherein the printing press prints for a particular paper and a particular ink type and wherein step (a) further comprises ~~the step of~~ generating the test screening pattern in dependence upon at least one of the particular paper and the particular ink.

18. (Currently amended) The method of claim 15, wherein step (a) further comprises ~~the step of~~ generating the test screening pattern on a computer.

19. (Currently amended) A print screen tonal control and compensation system comprising:

a printing press adapted to print a screening pattern;  
a densitometric meter adapted to determine an ink density of at least a portion of the screening pattern; and  
a controller operatively coupled to the printing press and the densitometric meter, the controller comprising a processor and a memory operatively coupled to the processor,

the controller being programmed to generate a test screening pattern having a plurality of screening densities including a maximum screening density representing a solid screening,

the controller being programmed to cause the test screening pattern to be printed by the printing press,

the controller being programmed to cause the densitometric meter to determine a maximum ink density of the printed test screening pattern,

the controller being programmed to determine whether the maximum ink density of the printed test screening is a solid screening,

the controller being programmed to compare the determined maximum ink density of the printed test screening with the maximum screening density representing a solid screening to determine a plugging point indication,

the controller being programmed to create a density curve for each screening density not less than the plugging point indication, and

the controller being programmed to apply the density curve to the test screening pattern.

20. (original) The system of claim 19, wherein the printing press prints for a particular paper and a particular ink type and wherein the controller being programmed to generate the test screening pattern in dependence upon at least one of the particular paper and the particular ink.

21. (original) The system of claim 19, wherein the densitometric meter is one of a photospectrometer, densitometer, or combination thereof.

22. (original) The system of claim 19, wherein the printing press is an offset printing press.